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	APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
	10/644,071		08/20/2003	Yoshihiro Sasaki	040373-0338	4342	
	22428	7590	09/22/2004		EXAM	INER	
	FOLEY AN SUITE 500	D LARI	ONER	LE, JOHN H			
3000 K STREET NW					ART UNIT	PAPER NUMBER	
	WASHINGT	ON, DC	20007		2863		

DATE MAILED: 09/22/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)	1.
.	10/644,071	SASAKI ET AL.	,
Office Action Summary	Examiner	Art Unit	
	John H Le	2863	
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet	with the correspondence address -	-
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reg. - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailine earned patent term adjustment. See 37 CFR 1.704(b).	.136(a). In no event, however, may oly within the statutory minimum of t I will apply and will expire SIX (6) Mi te, cause the application to become	a reply be timely filed hirty (30) days will be considered timely. DNTHS from the mailing date of this communica ABANDONED (35 U.S.C. § 133).	ation.
Status			
1) Responsive to communication(s) filed on			
	is action is non-final.		
3) Since this application is in condition for allowed		atters, prosecution as to the merits	s is
closed in accordance with the practice under	Ex parte Quayle, 1935 C	.D. 11, 453 O.G. 213.	*
Disposition of Claims			
4) ☐ Claim(s) 1-48 is/are pending in the application 4a) Of the above claim(s) is/are withdra 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1.17.25.33 and 41 is/are rejected. 7) ☐ Claim(s) 2-16.18-24.26-32.34-40 and 42-48 is 8) ☐ Claim(s) are subject to restriction and/	awn from consideration. s/are objected to.		
Application Papers			İ
9)☐ The specification is objected to by the Examin 10)☑ The drawing(s) filed on 09 December 2003 is/ Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11)☐ The oath or declaration is objected to by the E	are: a)⊠ accepted or b) e drawing(s) be held in abey ction is required if the drawi	ance. See 37 CFR 1.85(a). ng(s) is objected to. See 37 CFR 1.12	` '
Priority under 35 U.S.C. § 119			
a) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Bureat* See the attached detailed Office action for a list	nts have been received. Its have been received in ority documents have been received in the control of the con	Application No en received in this National Stage	
044			
Attachment(s) Notice of References Cited (PTO-892)	4) 🔲 Interview	v Summary (PTO-413)	
Notice of References Cited (FTO-632) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date	Paper N	o(s)/Mail Date f Informal Patent Application (PTO-152)	

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DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1, 17, 25, 33, and 41 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bahns et al. (USP 6,020,747) in view of Yoshida (USP 6,137,295).

Regarding claims 1, 17, 25, 33, and 41, Bahns et al. disclose a computer program, data processing, and probe testing apparatus for testing an end shape of a contact probe (14, 16) brought into pressure contact with a contact pad (32a, 32b, 32c, 32d) on an integrated circuit (28) (Col.6, lines 34-41), said apparatus comprising: means for detecting a surface shape (surface test) of at least one of said contact pad and said contact probe as three-dimensional data (X-Y-Z measurements)(Col.6, line 62-Col.7, line 25).

Bahns et al. fail to teach means for analyzing the surface shape through imaging; and means for determining from the result of the analysis whether said contact probe is acceptable or defective.

Yoshida discloses means for analyzing the surface shape through imaging; and means for determining from the result of the analysis whether said contact probe is defective (Col.3, lines 14-23, Col.9, lines 15-39, Fig.11).

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It would have been obvious to one of ordinary skill in the art at the time the invention was made to include means for analyzing the surface shape through imaging; and means for determining from the result of the analysis whether said contact probe is defective as taught by Yoshida in a computer program, data processing, and probe testing apparatus of Bahns et al. for the purpose of providing a method for detecting a defect of an integrated circuit.

Other Prior Art

3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure:

Hsiung et al. (USP 6,590,409) disclose systems and method for package defect detection.

Allowable Subject Matter

4. Claims 2-16, 18-24, 26-32, 34-40, and 42-48 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Contact Information

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to John H Le whose telephone number is 571-272-2275. The examiner can normally be reached on 8:00 - 4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John E Barlow can be reached on 571-272-2269. The fax

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phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

John H. Le

Patent Examiner-Group 2863

September 16, 2004

John Barlów
Supervisory Patent Examiner
Technology Center 2800